

All Frequencies MHz and AM other otherwise Specified
 Thanks to Call Team, Teams and Spots for Providing the Frequencies and Radio Information for FC3
 LINKED TO SECOND SHEET - EDIT THERE!

| Aircraft | Radio 1 - MHz | | | | Radio 2 - MHz | | | | Radio 3 - MHz | | | | Radio Switching | Volume Control | In-Cockpit DCS PTT | Notes | |
|------------------------------|----------------------------|-------------|-------------|---------------|----------------------|----------|-------------|---------------|------------------|-----------|-----------|---------------|-----------------|------------------|--------------------|--|---|
| | Name | Min | Max | Guard Channel | Name | Min | Max | Guard Channel | Name | Min | Max | Guard Channel | | | | | |
| AN2K | AN/ARC 188(V) | 116 | 151.975 | 121.5 | AN/ARC 164 UHF | 225.00 | 399.98 | 243.00 | AN/ARC 188(V) FM | 30 FM | 87.975 FM | No Radio | External Hotkey | External Overlay | No | | |
| MIG 29 A/S/G | R 862 | 100.00 | 399.98 | 121.50 | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | External Hotkey | External Overlay | No | | |
| SU 26/1 | R 862 | 100.00 | 399.98 | 121.50 | R 828 | 20 FM | 59.975 FM | NO | No Radio | No Radio | No Radio | No Radio | External Hotkey | External Overlay | No | | |
| SU 27 | R 800 | 100.00 | 399.98 | 121.50 | R 864 | 5 | 10 | NO | No Radio | No Radio | No Radio | No Radio | External Hotkey | External Overlay | No | | |
| F15C | AN/ARC 164 UHF 1 | 225.00 | 399.98 | 243.00 | AN/ARC 164 UHF 2 | 225 | 399.975 | NO | No Radio | No Radio | No Radio | No Radio | External Hotkey | External Overlay | No | | |
| Other Aircraft / Radio / FC3 | FCL UHF | 225.00 | 400.00 | 243.00 | FCL UHF | 100 | 151.975 | NO | FCL FM | 20 FM | 87.975 FM | NO | External Hotkey | External Overlay | No | | |
| CA / Spectator | CA UHF/VHF | 100.00 | 400.00 | 243.00 | CA UHF/VHF | 100.00 | 400.00 | 121.5 | CA FM | 20 FM | 87.975 FM | NO | External Hotkey | External Overlay | No | Special Radio set with increased range for CG / CA / AWACS. Additionally 4th radio HF (2-30MHz) for MIG 15/17W/RE GC | |
| UH-1H | AN/ARC 188X UHF | 225.00 | 399.90 | 243.00 | AN/ARC 134 | 116 | 149.975 | NO | AN/ARC 131 | 30 FM | 78.95 FM | NO | In-Cockpit | In-Cockpit | Yes | Radio 3 is FM | |
| SA 342 V/U | TRAB 138 | 118.00 | 143.98 | NO | UHF TRB 6311 | 225 | 399.975 | 243 | TRB Radio FM/G | 20 FM | 60 FM | NO | External Hotkey | In-Cockpit | No | | |
| HA 50 | R 800L14 VHF/UHF | 100.00 | 399.90 | 121.50 | R 828 | 20 FM | 59.975 FM | NO | No Radio | No Radio | No Radio | No Radio | In-Cockpit | In-Cockpit | No | R 800 - AM/FM Switch | |
| M8 | R 883 | 100.00 | 399.90 | 121.5 or 243 | ARND CA | 2 | NO | R 828 | 20 FM | 59.975 FM | NO | In-Cockpit | In-Cockpit | Yes | | R 883 - AM/FM Switch. Additional data in the M8-8 manual | |
| R 99 | R 8134 | 118.00 | 399.95 | 121.50 | INTERCOM | INTERCOM | INTERCOM | NO | No Radio | No Radio | No Radio | No Radio | In-Cockpit | In-Cockpit | Yes + Intercom PTT | | Intercom Switch on top left of throttle or in the stick back seat. Push and Hold |
| A10C | AN/ARC 188(V) | 116 | 151.975 | 121.5 | AN/ARC 164 UHF | 225.00 | 399.90 | 243.00 | AN/ARC 188(V) FM | 30 FM | 87.975 FM | 40.5 | External Hotkey | In-Cockpit | No | | Radio 3 is FM |
| R 86 | AN/ARC 27 | 225.00 | 399.90 | 243.00 | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | N/A | In-Cockpit | Yes | | |
| MIG 15 | RS 6K | 3.75 | 5.00 | NO | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | N/A | In-Cockpit | Yes | | Range: 0-1000 metres: 80-90km, +1000: 120km approx. |
| MIG 21 | R 832 | 100.00 | 399.90 | NO | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | N/A | In-Cockpit | Yes | | |
| TBF 44D | SCR522a | 100.00 | 156.00 | NO | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | N/A | In-Cockpit | Yes | | http://www.ck-museum.ru/document/airfoyle/images/P54-44-02.pdf |
| FW 190 | FUG 182V | 38.40 | 42.40 | NO | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | N/A | In-Cockpit | No | | 1st channel not for radio communication. It seems not implemented yet. |
| BT 209 | FUG 182V | 38.40 | 42.40 | NO | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | N/A | In-Cockpit | No | | 1st channel not for radio communication. It seems not implemented yet. |
| C-101 | AN/ARC 164 UHF | 225.00 | 399.90 | 243.00 | AN/ARC 134 | 116 | 149.975 | NO | INTERCOM | INTERCOM | INTERCOM | NO | In-Cockpit | In-Cockpit | No | | |
| Rehak | AN/ARC 164 UHF | 225.00 | 399.90 | 243.00 | AR 2155(V) | 116 | 149.975 | 121.5 | No Radio | No Radio | No Radio | No Radio | No Radio | N/A | In-Cockpit | No | |
| MADOC | TFT EA 2000 (V)UHF | 118.144 | 255-399.975 | 243.00 | TFT EA 2000 UHF | 225 | 399.9 | NO | No Radio | No Radio | No Radio | No Radio | External Hotkey | In-Cockpit | No | | UHF Radio has Encryption - press the green UHF EDE button |
| F3E / M2028 | AN/ARC 164 UHF | 225.00 | 399.90 | 243.00 | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | N/A | In-Cockpit | Yes | | |
| AD 33 | FR 22 (V)UHF | 100-155.985 | 225-399.98 | NO | FR 24 VHF | 110 | 147 | 121.5 | No Radio | No Radio | No Radio | No Radio | External Hotkey | In-Cockpit | No | | |
| FA 13c | AN/ARC 210 | 90.88 | 255-399.975 | 121.5 or 243 | AN/ARC 210 | 30.88 | 255-399.975 | 121.5 or 243 | No Radio | No Radio | No Radio | No Radio | External Hotkey | In-Cockpit | No | | FR 24 have 6 preset channels - 4 Normal + Guard |
| F 4H | AN/ARC 159 UHF (UHF) F100s | 225.00 | 399.975 | 243.00 | AN/ARC 182 (V)UHF RC | 30.88 | 255-399.975 | as desired | No Radio | No Radio | No Radio | No Radio | N/A | In-Cockpit | No | | |
| A 10C(L) | AN/ARC 188(V) | 116 | 151.975 | 121.50 | AN/ARC 164 UHF | 225.00 | 399.90 | 243.00 | AN/ARC 188(V) | 116 | 151.975 | 121.50 | UNK | In-Cockpit | No | | |
| JF 17 | R85 M3AR | 108-173.975 | 225-399.975 | 121.5 or 243 | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | UNK | In-Cockpit | No | | |
| F 47 | SCR522 | 100.00 | 156.00 | NO | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | UNK | In-Cockpit | No | | |
| F 16 | AN/ARC 164 UHF | 225.00 | 399.90 | 243.00 | AN/ARC 222 | 108.00 | 175.975 | 121.5 | No Radio | No Radio | No Radio | No Radio | UNK | In-Cockpit | No | | |
| 148 | SCR522 | 100.00 | 156.00 | NO | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | UNK | In-Cockpit | No | | |
| MIG 19 | RS149 | 100.00 | 150.00 | NO | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | UNK | In-Cockpit | No | | |
| CE 2 | KY 198B | 118.00 | 136.992 | 121.50 | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | No Radio | UNK | In-Cockpit | No | | |

Colour Key for Aircraft Types

- Full Cockpit - No Simple Radio Hotkeys other than PTT
- Full Cockpit - SRS HOTAS Radio Switch Hotkeys + PTT
- FC3 / GC3 / CA - All Hotkeys + Volume Controls + Guard switch through Overlay

Note: You can Toggle Guard for FC3 Aircraft by right clicking the radio frequency box on the Radio Overlay
 Guard means you can listen on two frequencies on one Radio. You'll always transmit on the shown frequency
 i.e Guard on AN/ARC 188X UHF for UHF1 means you'll hear all transmissions on 243.00 as well as what you're turned too

Video Overview

<https://www.youtube.com/watch?v=4-7o9SgFw>

Blue Flag Round 10 Frequencies

<https://docs.google.com/spreadsheets/d/1UPL4E8GZ2HDDU6L8Q8A9>

| | 2 | 3 | 1.75 | 5 | 10 | 18 | 20 | 30 | 38.4 | 42.4 | 50.975 | 75.05 | 87.975 | 100 | 116 | 118 | 143.08 | 149.975 | 151.975 | 156 | 225 | 225.9 | 225.975 | 225.98 | 400 | |
|-----------------------|---|---|------|---|----|----|----|----|------|------|--------|-------|--------|-----|-----|-----|--------|---------|---------|-----|-----|-------|---------|--------|-----|--|
| A-10A | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MIG-29 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SU-26T | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SU-27 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F-15C | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Other AC / Mods / FC3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CA / SPECTATOR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UH-1H | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA342 M/L | | | | | | | | | | | | | | | | | | | | | | | | | | |
| KA-50 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MI-8 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L-39 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A-10C | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F-86 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MIG-15 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MIG-21 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P-51 / Spitfire | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FW-190 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BF-109 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-101 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hawk | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M2000C | | | | | | | | | | | | | | | | | | | | | | | | | | |

Contributed by: [HyV-Panhead](#)

| | | |
|--------------------------------------|-----------------------|--|
| VHF/FM TRC 9600 PR4G | Contributed by: wolf5 | |
| Freq : 30 - 87.975 MHz | | |
| Pwr : 0.5W; 5W; 10W | | Power amount is selectable - I'll just go with the Highest |
| | | |
| VHF/MA TRAP 138A | | |
| Freq: 118 - 143.975 MHz | | |
| Pwr 15W | | |
| | | |
| V/UHF TRA 6031 | | |
| Freq: VHF 118 - 173.975 MHz (AM/FM) | | |
| VHF 156 - 162.025 MHz (FM) | | |
| VHF 118 - 136.975 MHz (AM) | | |
| UHF 225 - 399.975 MHz (AM/FM) | | |
| Pwr: 5W; 20W | | |
| | | |
| On UHF when switch is on "NA" (NATO) | | -- TODO |
| On FM when switch is on "Ch OTAN" | | |
| | | |
| Traffic and FF are normal mode. | | |

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| AN/ARC-27 | | | | | | |
| 225 to 399.9 | | | | | | |
| Power 9 Watts | | | | | | |
| Source: https://docs.google.com/viewerng/viewer?url=http://www.virhistory.com/navy/manuals/94200/94200.1a_9-5.pdf | | | | | | |
| Contributed By: 71st_AH Rob | | | | | | |

| | | |
|---|--|--|
| Min Max Guard Channel Radio Power (dBm) | | |
| AN/ARC-164 UHF 225.00 399.975 243.00 40 | | |
| AN/ARC-186(V) 116.000 151.975 121.5 40 | | |
| AN/ARC-186(V)FM 30 87.975 40.5 42 | | |
| | | |
| | | |
| Contributed By: Eddie | | |
| | | |
| | | |
| A-10a/C | | |
| AN/ARC-164 - 10 watts | | |
| http://www.raytheon.com/capabilities/products/arc164/ | | |
| | | |
| ARC-186(V) - 10 W minimum (AM/FM), 16 W maximum (FM) into 52 ohms | | |
| https://www.forecastinternational.co....cfm?ARC_ID=93 | | |
| | | |
| Contributed by: Sierra99 | | |

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| | | |
| | | https://www.harris.com/sites/default/files/downloads/solutions/harris-falcon-iii-an-prc-117g-multiband-networking-manpack-radio.pdf |
| | | For information about JTAC radios: |
| | | Harris 117G: |
| | | Output: 20W |
| | | |
| | | |
| | | Harris 152 (RF-7800): |
| | | Output: 5W |
| | | https://www.harris.com/sites/default/files/downloads/solutions/harris-falcon-iii-rf-7800m-hh-handheld-radio.pdf |
| | | |
| | | Thales AN/PRC 148: |
| | | Output: 5W |
| | | https://docs.google.com/viewerng/viewer?url=http://www.thalescomminc.com/datasheets/Thales+MBITR.pdf |
| | | |
| | | Contributed by: Neck |
| | | |
| | | NECK: Additional comments: For a JTAC, if operating without a vehicle, the JTAC would likely have 1x Harris 117 and 1x 152 or 148. So a total of 2 Radios. If operating from vehicles, the amount of radios would increase, and as a minimum should have access to 3 radios. Also, not that when operating from a vehicle, the same radios that are mentioned above would be used, but it would be used with a vehicle amplifier, so it would have more output than what is available as the manpack version. |
| | | Comment NECK: Once distance/LOS is in play, we have encountered a need for a long-range communication between JTAC (ground forces) and AWACS/other controllers. In the 132nd the JTACs can request CAS support through AWACS, which redirects flights to support the JTAC during a mission. We worked with Tacno, the developer of UniversRadio, and what he did was to make all frequencies below a certain freq (I think it was 30.000 MHZ) to be not affected by LOS/distance limitations in order to simulate High Frequency radios (For example Harris 150C) or SATCOM (For example the 117G can also be used as SATCOM). Maybe it would be possible to include this long-range feature? I know that this is likely not a feature that not very many users would see the need for, but for our gameplay it effects the mission quite alot. As it would be bad for the JTAC not to be able to communicate with AWACS. |
| | | |
| | | CA / Spectator - Single Channel Ground and Airborne Radio System (SINCGARS) |
| | | http://fas.org/man/dod-101/sys/land/sincgars.htm |
| | | https://en.wikipedia.org/wiki/SINCGARS |
| | | Contributed by: Sierra99 |

| | | | | |
|---|--|--|--|--|
| AWACS Radios: | | | | |
| | | | | |
| Output: 400W | | | | |
| Source: http://www.militaryaerospace.com/art...-aircraft.html | | | | |
| | | | | |
| Contributed by: Neck | | | | |

| From the BST manual | | |
|---------------------|-------------------------------|-----------------|
| Table 6.1 | | |
| # | Characteristic | Value |
| 1 | receiver frequency range, MHz | 3.75-5.00 |
| 2 | Receiver sensitivity, uV | 8-10 |
| 3 | Communication range, km: | altitude 500 m |
| | | 80-90 |
| | | altitude 1000 m |
| | | 120-130 |

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|-------------------|--|--|--|--|
| Data for FUG-16ZY | | | | |
| | | | | |

<http://www.deutscheluftwaffe.de/archiv/Dokumente/ABC/f/Funk/FuG16Z.pdf>

| | |
|----------------------------|--------|
| Data in MI-8 manual | |
| | |
| Jadro range: +900km | |
| R-828 range | 120 km |

ARC-210(RT-1556 and DCS)

| Frequency Band (MHz) | Modulation | Guard Channel (MHz) |
|----------------------|------------|---------------------|
| 30 to 87.995 | FM | |
| *108 to 135.995 | AM | 121.5 |
| 136 to 155.995 | AM/FM | |
| 156 to 173.995 | FM | |
| 225 to 399.975 | AM/FM | 243.0 (AM) |

*Cannot transmit on 108 thru 117.995 MHz

contributed by: [Blacktails] B.O.B.

| | | | | | | | | | |
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| | | | | | | | | | |
| | AN/ARC-159 (UHF1 Pilot) | | | | | | | | |
| | 225.000 to 399.975 MHz | | | | | | | | |
| | a guard channel (243.000 MHz) | | | | | | | | |
| | tuning in 25-kHz steps | | | | | | | | |
| | All controls for operation of the radio are on the front panel of the radio. The radio is located on the pilot left console. | | | | | | | | |
| | | | | | | | | | |
| | AN/ARC-182 (V/UHF2 RIO) | | | | | | | | |
| | 30.00 to 80.00 (FM or AM: automatic selection) | | | | | | | | |
| | 108.000 to 156.000 (FM or AM: automatic selection) | | | | | | | | |
| | 156.000 to 174.000 (FM or AM: automatic selection) | | | | | | | | |
| | 225 to 399.975 (FM or AM: manual selection via toggle switch right of the Freq-Display) | | | | | | | | |
| | tuning in 25-kHz steps | | | | | | | | |
| | The ARC-182 control panel is located on the RIO left console | | | | | | | | |
| | Guard frequency of each band may be monitored simultaneously with any other frequency selected | | | | | | | | |
| | Upper and lower antenna installations provide reliable line-of-sight communications to 200 NM (depending on altitude and atmospheric conditions) | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | contributed by: [Blacktails] B.O.B. | | | | | | | | |

https://scdn.rohde-schwarz.com/ur/pws/dl_downloads/dl_common_library/dl_brochures_and_datasheets/pdf_1/service_support_30/MR6000A_Fly_en_3607-0900-32_v0101.pdf

<https://www.bendixking.com/en/products/nc/navigation-and-communication/ky-196b>

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| http://www.tuberadio.com/scr522/scr522.htm | | | |
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| http://www.radiomanual.info/schemi/Surplus_NATO/SCR-522A_SCR-542A_user_AN16-40SCR522-2_1944.pdf | | | |
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